

IEC 60096-3 designation 8/BS5425-1/BS EN 50117-1:2002, BS EN 50117-2-1:2005+A1:2008 designation 370

Coaxial cable for wideband distribution systems

BS 2316 (radio frequency cables)



### **Construction**

Inner Conductor	:	Plain annealed copper
Dielectric	:	5-cell extrusion air-spaced polyethylene
Outer Conductor	:	Copper foil longitudinally applied with copper wire braid
Outer Sheath	:	PVC

### **Dimensions**

Inner Conductor	:	1.00 ± 0.02	mm dia.
Over Dielectric	:	4.50 ± 0.10	mm dia.
Outer Conductor	:	5.02 ± 0.10	mm dia.
Over Sheath	:	6.60 ± 0.10	mm dia.

### **Electrical Data**

Attenuation dB/100 meters (Max)

Frequency	Atten. (± 5%)	Frequency	Atten. (± 5%)
5 MHz	1.4	860 MHz	18.7
50 MHz	4.2	1000 MHz	20.5
100 MHz	6.2	1350 MHz	24.0
200 MHz	8.6	1750 MHz	27.7
460 MHz	13.6	2150 MHz	31.0

Impedance/Tolerance	:	75 ± 3 Ohm
Capacitance	:	55 pF/m
Velocity Ratio	:	82 %
Minimum Bending Radius	:	35 mm
Structural Return Loss	:	≥ 23 dB    5-470 MHz
		≥ 20 dB    470-1000 MHz
		≥ 20 dB    1000-2150 MHz
Inner Conductor Resistance	:	< 26 Ohm/km
Outer Conductor Resistance	:	< 16 Ohm/km
Screening Attenuation	:	30-1000MHz > 75 dB
		1000-2150MHz > 75 dB